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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,118	11/15/2006	Kimmo Puhakka	12763/48501	3934
23838 KENYON & K	7590 10/27/200 ENYON LLP	EXAMINER		
1500 K STREE	_	LUU, CHUONG A		
	SUITE 700 WASHINGTON, DC 20005			PAPER NUMBER
			2892	
			MAIL DATE	DELIVERY MODE
			10/27/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/532,118	PUHAKKA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Chuong A. Luu	2892		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 7/27/2 This action is FINAL . 2b)☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-32 is/are pending in the application. 4a) Of the above claim(s) 10-31 is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3, 8-9 and 32 is/are rejected. 7) ☐ Claim(s) 4-7 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ accention and policinate may not request that any objection to the original stress and accention is accention.	n from consideration. r election requirement. r. epted or b) □ objected to by the B			
Replacement drawing sheet(s) including the correcti		` ,		
11) The oath or declaration is objected to by the Ex	anniner. Note the attached Office	ACTION OF TOTAL PTO-152.		
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/20/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I, claims 1-9 and 32 in the reply filed on July 27, 2009 is acknowledged.

PRIOR ARTS REJECTIONS

Statutory Basis

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

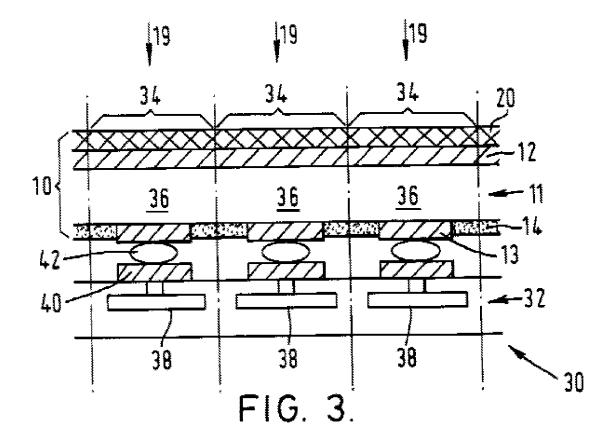
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The Rejections

Claims 1-3, 8-9 and 32 are rejected under 35 U.S.C. 102(b) as being anticipated by Spartiotis (U.S. 6,188,089).

Spartiotis discloses, as shown is Figure 3, a semiconductor imaging device with

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(1) A method of manufacturing a radiation detector having one or more conductive contacts (13, 42, 40) on a semiconductor substrate (10), the method including the steps of: applying a first conductive layer (13) to a first surface of the semiconductor substrate (10);

applying a second conductive layer (42) to form a plurality of contiguous layers of conductive materials, said plurality of contiguous layers including said first conductive layer (13);

selectively removing parts of said plurality of contiguous layers so as to form said conductive contacts (13, 40), the conductive contacts defining one or more radiation detector cells in the semiconductor substrate (10) (see column 5, lines 51-65. Figure 3);

- (2) including applying a third layer between said first and second layers, said third layer being a conductive layer (see Figure 3);
- (3) including applying a further layer to the second layer, said further layer being a conductive layer (see Figure 3);
- (8) wherein each of said first and second layers is applied by sputtering,evaporation, electrolytic deposition, or electroless deposition (see column 5, lines 48-50);
- (9) including forming a layer of conductive material (12) on a surface of said substrate (10) opposite to said first surface (see Figure 3);
- (32) comprising: manufacturing a radiation detector in accordance with any one of claim 1 to claim 9;individually connecting individual detector cell contacts for respective detector cells to corresponding circuits on a readout chip (see column 4, lines 26-38).

Allowable Subject Matter

Claims 4-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is an examiner's statement of reasons for allowance: The examiner has reviewed the prior art in light of applicant's claimed invention and finds that the combined claims define over the prior art. The cited prior art does not disclose or suggest a semiconductor device inter alia the limitations "...forming a layer of

passivation material on said conductive contacts and the regions around conductive contacts; and removing portions of said passivation material overlying said conductive contacts to expose the conductive contacts.."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong A. Luu whose telephone number is (571) 272-1902. The examiner can normally be reached on M-F (6:30-3:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thao X. Le can be reached on (571) 272-1708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chuong A Luu/ Primary Examiner, Art Unit 2892 October 14, 2009